

about 144.80 lakh people are dependent on fisheries and its allied activities as sources of livelihood.

- (b) About 1.12 lakh persons are engaged in fish processing activity.
- (c) About 2.70 lakh women are engaged in actual operation of fishing and 0.66 lakh women are engaged in fish processing activity.

#### **Bt. cotton cultivation**

**3220. SHRI SITARAM YECHURY:** Will the Minister of AGRICULTURE be pleased to state:

- (a) whether Government have approved the Bt. cotton cultivation in certain parts of the country;
- (b) if so, the details thereof including the States, the variety of Bt. seeds that have got the approval;
- (c) the extent of Bt. cotton farming in the country, since 2000; and
- (d) whether Government have conducted any study on the impact of GM seeds on our agriculture and overall economy of farming community in the country?

**THE MINISTER OF STATE IN THE MINISTRY OF AGRICULTURE (SHRI KANTILAL BHURIA):** (a) and (b) Bt. cotton is the only genetically modified (GM) crop approved for commercial cultivation in the States of Andhra Pradesh, Karnataka, Tamil Nadu, Haryana, Punjab, Rajasthan, M.P., Gujarat and Maharashtra by Genetic Engineering Approval Committee (GEAC) of the Ministry of Environment and Forests. The details of Bt. cotton hybrids approved for commercial cultivation by GEAC are given in the Statement (See below).

(c) The extent of Bt. cotton cultivation from Kharif 2002-03, when it was first released for commercial cultivation, to 2006-07 is as under:

Year	Area in lakh ha.
2002-03	0.29
2003-04	0.92
2004-05	4.92
2005-06	12.34
2006-07	34.40 (provisional)

(d) Government has not conducted any study on the impact of genetically modified seeds on agriculture. However, as per the information provided by different States, the production of Bt. cotton is higher by 15 to 30% as compared to non-Bt. cotton.

### **Statement**

#### *Details of Bt. Cotton hybrids approved for commercial cultivation by GEAC*

Sl.No.	Name of Hybrids	Name of Company	Gene Event	Zone
1	2	3	4	5
<b>April 2002</b>				
1.	MECH 12 Bt***	M/s Mahyco	cry 1 Ac (MON 531 Event)	Central (renewed)
2.	MECH 162 Bt***	M/s Mahyco	cry 1 Ac (MON 531 Event)	Central & South (renewed)
3.	MECH 184 Bt***	M/s Mahyco	cry 1 Ac (MON 531 Event)	Central & South (renewed)
<b>April 2004</b>				
4.	RCH 2 Bt	M/s Rasi Seeds Ltd	cry 1 Ac (MON 531 Event)	Central & South
<b>April-June, 2005</b>				
5.	NCS-207 Mallika	M/s Nuziveedu Seeds Ltd.	cry 1 Ac (MON 531 Event)	Central & South
6.	NCS-145 Bunny	M/s Nuziveedu Seeds Ltd.	cry 1 Ac (MON 531 Event)	Central & South
7.	RCH-144 Bt	M/s Rasi Seeds Ltd	cry 1 Ac (MON 531 Event)	Central
8.	RCH-118 Bt	M/s Rasi Seeds Ltd	cry 1 Ac (MON 531 Event)	Central
9.	RCH-138 Bt	M/s Rasi Seeds Ltd	cry 1 Ac (MON 531 Event)	Central
10.	RCH-20 Bt	M/s Rasi Seeds Ltd	cry 1 Ac (MON 531 Event)	South
11.	RCH-368 Bt	M/s Rasi Seeds Ltd	cry 1 Ac (MON 531 Event)	South
12.	RCH-134 Bt	M/s Rasi Seeds Ltd	cry 1 Ac (MON 531 Event)	North

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1	2	3	4	5
13.	RCH-317 Bt	M/s Rasi Seeds Ltd.	cry 1 Ac (MON 531 Event)	North
14.	MRC-6322 Bt	M/s Mahyco	cry 1 Ac (MON 531 Event)	South
15.	MRC-6918 Bt	M/s Mahyco	cry 1 Ac (MON 531 Event)	South
16.	MRC-6301 Bt	M/s Mahyco	cry 1 Ac (MON 531 Event)	Central & North
17.	MRC-6304 Bt	M/s Mahyco	cry 1 Ac (MON 531 Event)	North
18.	Ankur-651 Bt	M/s Ankur Seeds Ltd.	cry 1 Ac (MON 531 Event)	Central & North
19.	Ankur-2534 Bt	M/s Ankur Seeds Ltd.	cry 1 Ac (MON 531 Event)	North
20.	Akur-09	M/s Ankur Seeds Ltd.	cry 1 Ac (MON 531 Event)	Central

**April-July, 2006**

21.	MRC-6025 Bt.	M/s Mahyco	cry 1 Ac (MON 531 Event)	North Zone
22.	MRC-6029 Bt.	M/s Mahyco	cry 1 Ac (MON 531 Event)	North
23.	NCS-913 Bt.	M/s Nuziveedu Seeds Ltd.	cry 1 Ac (MON 531 Event)	North/Central/ South Zone
24.	NCS 138 Bt.	M/s Nuziveedu Seeds Ltd.	cry 1 Ac (MON 531 Event)	North
25.	RCH 308 Bt.	M/s Rasi Seeds Ltd.	cry 1 Ac (Event 1)	North
26.	RCH 314 Bt.	M/s Rasi Seeds	cry 1 Ac (MON 531 Event)	North
27.	RCH 377 Bt.	M/s Rasi Seeds	cry 1 Ac (MON 531 Event)	Central Zone
28.	RCH 111 BG	M/s Rasi Seeds	cry 1 Ac (MON 531 Event)	South Zone
29.	RCH-371 BG	M/s Rasi Seeds	cry 1 Ac (MON 531 Event)	South Zone
30.	RCHB-708 BG1	M/s Rasi Seeds	cry 1 Ac (MON 531 Event)	South Zone
31.	GK 205 Bt.	M/s Ganga Kaveri Seeds Pvt. Ltd.	cry 1 Ac (MON 531 Event)	Central Zone

1	2	3	4	5
32.	GK 204 Bt.	M/s Ganga Kaveri Seeds Pvt. Ltd.	cry 1 Ac (MON 531 Event)	Central Zone
33.	GK 209 Bt.	M/s Ganga Kaveri	cry 1 Ac (MON 531 Event)	South Zone
34.	GK 207 Bt.	M/s Ganga Kaveri	cry 1 Ac (gene Event 1)	South Zone
35.	KDCHH 9810 Bt.	M/s Krishidhan Seeds Pvt. Ltd.	cry 1 Ac (MON 531 Event)	Central & South Zone
36.	KDCHH 9632 Bt.	M/s Krishidhan Seeds Pvt. Ltd.	cry 1 Ac (MON 531 Event)	Central & South Zone
37.	KDCHH 9821 Bt.	M/s Krishidhan Seeds Pvt. Ltd.	cry 1 Ac (MON 531 Event)	Central Zone
38.	ACH-33-1 Bt.	M/s Ajeet Seeds Ltd.	cry 1 Ac (MON 531 Event)	Central & South Zone
39.	ACH-155-1	M/s Ajeet Seeds Ltd.	cry 1 Ac (MON 531 Event)	Central & South Zone
40.	Tulasi 4 Bt.	M/s TulaŠi Seeds Ltd.	cry 1 Ac (MON 531 Event)	Central & South Zone
41.	Tulasi 117 Bt.	M/s Tulasi Seeds Ltd.	cry 1 Ac (MON 531 Event)	Central & South Zone
42.	NPH 2171 Bt.	M/s Prabhat Seeds Ltd.	cry 1 Ac (MON 531 Event)	Central & South Zone
43.	Brahma Bt.	M/s Emergent Genetics	cry 1 Ac (MON 531 Event)	Central & South Zone
44.	VICH 5 Bt	M/s Vikram Seeds Pvt. Ltd.	cry 1 Ac (MON 531 Event)	Central & South Zone
45.	VICH 9 Bt.	M/s Vikram Seeds Ltd. Pvt. Ltd.	cry 1 Ac (MON 531 Event)	Central & South Zone
46.	PRCH-102 Bt.	M/s Pravardhan Seeds Pvt. Ltd.	cry 1 Ac (MON 531 Event)	Central Zone
47.	PCH-2270 Bt.	M/s Prabhat Seeds Ltd.	cry 1 Ac gene (Event 1)	South Zone
48.	VCH 111 Bt	M/s Vikki Agrotech Pvt. Ltd.	cry 1 Ac (Event 1)	Central Zone
49.	MRC 7301 BG II	M/s Mahyco	cry 1 Ac and cry 2 Ab (MON 15985 Event)	Central Zone

1	2	3	4	5
50.	MRC-7326 BG II	M/s Mahyco	cry 1 Ac and cry 2 Ab (MON 15985 Event)	Central Zone
51.	MRC-7347 BG II	M/s Mahyco	cry 1 Ac and cry 2 Ab (MON 15985 Event)	Central Zone
52.	MRC-7351 BG II	M/s Mahyco	cry 1 Ac and cry 2 Ab (MON 15985 Event)	South Zone
53.	MRC 7201 BG II	M/s Mahyco	cry 1 Ac and cry 2 Ab (MON 15985 Event)	South Zone
54.	KDCHH-441 BG II	M/s Krishidhan Seeds Pvt. Ltd.	cry 1 Ac and cry 2 Ab (MON 15985 Event)	Central Zone
55.	ACH-11-2 BG II	M/s Ajeet Seeds Ltd.	cry 1 Ac and cry 2 Ab (MON 15985 Event)	Central Zone
56.	JKCH 1947 Bt	M/s J.K. Agri Genetics Seeds Ltd.	cry 1 Ac gene (Event 1)	North Zone
57.	JK Varun Bt.	M/s J.K. Agri Genetics Seeds Ltd.	cry 1 Ac gene (Event 1)	Central Zone
58.	JK Durga Bt	M/s J.K. Agri Genetics Ltd.	cry 1 Ac gene (Event 1)	South Zone
59.	JKCH-99 Bt.	M/s J.K. Agri Genetics Seeds Ltd.	cry 1 Ac gene (Event 1)	South Zone
60.	NCEH-6R	M/s Nath Seeds Ltd.	cry 1 Ab+cry 1C	North Zone
61.	NCEH-2R	M/s Nath Seeds Ltd.	cry 1 Ab+cry 1C	Central Zone
62.	NCEH-3R	M/s Nath Seeds Ltd.	cry 1 Ab+cry 1 Ac	South Zone

**Schemes for cereals, pulses and oilseeds in Goa**

3221. SHRI SHANTARAM LAXMAN NAIK: Will the Minister of AGRICULTURE be pleased to state:

- (a) whether the schemes for cereals, pulses and oilseeds are in force in Goa;
- (b) the essential features of the schemes;